

# SIKKIM

## GOVERNMENT



## GAZETTE

EXTRAORDINARY  
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No. 523

GOVERNMENT OF SIKKIM  
FORESTS, ENVIRONMENT AND WILDLIFE MANAGEMENT DEPARTMENT  
FOREST SECRETARIAT, DEORALI, GANGTOK, SIKKIM - 737102

No. 03/GOS/FEWMD.

Dated 8/12/2009

### NOTIFICATION

The activities carried out by Forest, Environment and Wildlife Management Department are mainly labour oriented. The schedule of rates for different activities have been analysed based on the mandays required to execute different types of works related to forestry in the filed. The inputs required are based on the market rates as on 01.04.2008. The rates are effective from 1<sup>st</sup> April 2004. Future revision of the rates will be based on the revision of the wages rates by the Government.

Sl.No.	Description of work	Unit	Cost as on 01.04.2008 (Rupees)		
			Low Altitude	High Altitude	Very High Altitude
1	Creation of nursery	Ha.	365078.00	431123.00	-
2	Maintenance of nursery	Ha.	246355.00	342893.00	-
3	Artificial regeneration	Ha.	21883.00	30579.00	-
4	Aided natural regeneration	Ha.	9681.00	14465.00	-
5	Plantation of small bamboos	Ha.	16983.00	25143.00	-
6	Plantation of medicinal plants and herbs	Ha.	43775.00	57376.00	-
7	Pasture development	Ha.	9883.00	13911.00	-
8	Bamboo plantation by seedlings (large bamboo)	Ha.	19699.00	-	-
9	Bamboo plantation by rhizomes (large bamboo)	Ha.	47657.00	-	-
10	Broom grass plantation	Ha.	11383.00	-	-
11	Fodder plantation	Ha.	9135.00	13515.00	-
12	Soil conservation through vegetative measures	Ha.	27005.00	39551.00	-
13	Silvipasture development	Ha.	15600.00	21295.00	-
14	Bailey benching	Ha.	24019.00	32944.00	-
15	Horticulture Development	Ha.	9282.00	11475.00	-
16	Avenue plantation with tree guard	Km.	469711.00	473824.00	-
17	Avenue plantation with bamboo basket	Km.	40706.00	51257.00	-
18	Wildlife Habitat Improvement	Ha.	18115.00	25867.00	-
19	Showing, dibbling & broadcasting in landslide areas	Ha.	12087.00	17748.00	-

4	Planting of soil binding grass rhizomes in crobar holes at 2 m. x 2 m. spacing (2500 rhizomes)	25	100	2500	150	3750
5	Collection, carriage and spreading of brushwood for mulching along the terraces. (2500 terraces)	50	100	5000	150	7500
7	Royalty of cuttings -7500 nos.		0.25	1875	0	1875
				26475		38775
8	contingencies including implements. Signboard etc. 2%			530		776
			<b>Total</b>	<b>27005</b>		<b>39551</b>

#### MAINTENANCE OF ONE HECTARE NURSERY

S N	ITEMS OF WORK	Total mandays	Rate/ manday	Low Altitude	Rate/ Manday	High Altitude
1	Wages of supervisor	365	115	41975	173	62963
2	Wages of labourers 4 labourers for 365 days	1460	100	146000	150	219000
3	Cost of polythene bags 200Kg.		164	32880		32880
4	Procurement of nursery implements and inputs Alkathene pipes 2 coils, one crobar, two shovels, two spades, three rose cans, five hand fork, 2 sickles etc.		L.S.	2000		2000
5	Cost of Agro-net/Chitras for providing shed to the nursery beds (in 50% beds)		L.S.	10000		10000
5	Purchase of cowdung manure 100 doko/ bags @ Rs.20/-			2000		3000
6	Collection, and carriage of jungle manure from forest and composting/vermicomposting in the nursery 120 headloads	30	100	3000	150	4500
8	Procurement of certified seeds			4000		4000
9	Repair works (fencing, mali shed etc.)			4000		4000
				245855		342343
10	Contingencies including cost of stationaries, sign boards 2% excluding item No. 1 and 2			500		550
	<b>Total</b>			<b>246355</b>		<b>342893</b>

#### SCHEDULE OF RATES/BASIS OF EXPENDITURE FOR ONE HECTARE AFFORESTATION/WILD FRUIT PLANTATION/FODDER AND FUELWOOD PLANTATION

SN	ITEMS OF WORK	Total mandays	Rate/ manday	Low Altitude	Rate/ manday	High Altitude
1	Survey, site clearance, removal of brushwood, stumps wherever necessary by retaining advanced growth in one hectare plantation area i.e. 10000 sq.m.	20	100	2000	150	3000
2	Cost of 16 bamboos (Malibans) for making sticks for laying out of planting pits @ Rs.60/-			960		960
3	Carriage of bamboo and preparation of 1 m. long sticks 100 sticks per bamboo = 1600 sticks	4	100	400	150	600
3	Laying out of plantation pits (1600 nos)	8	100	800	150	1200
4	Digging and refilling of plantation pits (1600 nos.) of size 30cm x 30 cm x 30 cm.	22.86	100	2286	150	3429
5	Cost of seedlings (1600 nos).		4.15	6640	5.75	9200
6	Carriage of polybag seedlings by mechanical transport upto nearest road head of the work site (average distance 5 kilometres) 1 truck load			1620		1620
6	Carriage of polybag seedlings from road head to work site by head load	8	100	800	150	1200
7	Planting of seedlings and fixing of sticks (1600 nos)	16	100	1600	150	2400
8	1st Weeding i/c casualty beating during July-August					
	(a) Weeding, cleaning and climber cutting	8	100	800	150	1200

	(b) soil working and mulching at the base of seedling 1600-20% casualty =1280 nos.	3.20	100	320	150	480
	[c] Carriage of polybag seedlings for casualty beating 20% of 1600=320 nos	4	100	400	150	600
	(d) Planting in pits having dead seedlings 320 nos	3	100	300	150	450
	(e) Cost of seedlings for casualty beating 320 nos		4.15	1328	6	1840
9	2nd Weeding in August September					
	(a) Weeding, cleaning and climber cutting	8	100	800	150	1200
	(b) soil working and mulching at the base of seedling 1600 Nos.	4	100	400	150	600
				21454		29979
10	Contingencies for sign board, implements and stationaries 2%			429		600
	<b>Total</b>			<b>21883</b>		<b>30579</b>

#### SCHEDULE OF RATES/BASIS OF EXPENDITURE FOR ONE HECTARE AIDED NATURAL REGENERATION

S N	ITEMS OF WORK	Total mandays	Rate/ manday	Low Altitude	Rate/ manday	High Altitude
1	Survey, site clearance, removal of brushwood, stumps wherever necessary by retaining advanced growth in one Ha. plantation area i.e. 10000 sq.m.	20	100	2000	150	3000
2	Soil working for dibbling of seeds in open area (taken 25% of the total area) 2500 sq.m.	5	100	500	150	750
3	collection of stakes for laying dibbling spots in 2500 sq.m. area (400 stakes)	2	100	200	150	300
4	Collection of seeds of suitable species specific to plantation site/altitude (approx. 10 kg.)	5	100	500	150	750
5	Staking and dibbling of seeds in 2500 sq.m. area at 2.5m x 2.5m (400 seeds)	2	100	200	150	300
6	Light hoeing in 75% area i.e. 7500 sq.m.	12.5	100	1250	150	1875
7	Live hedge fencing (including collection of 300 live cuttings) at vulnerable areas to prevent cattle entry (Approximately 50 m.)	20	100	2000	150	3000
8	1st Weeding including 20% casualty beating in seed dibbled area by planting poly bag seedlings during July-August in 2500 sq.m. area					
	(a) Weeding 7500 sq.m.	7.5	100	750	150	1125
	(b) Cost of seedlings 20% of 400 =40 seedlings		4.15	166	5.75	230
	(c) Planting of seedlings 40 Nos.	0.4	100	40	150	60
9	2nd Weeding in August September in 2500 sq.m. in seed dibbled area	2.5	100	250	150	375
10	Thinning in congested natural regeneration in 75% area including uprooting of unwanted growth of shrubs, climbers etc.	15	100	1500	150	2250
11	Royalty of live hedge cuttings (300 nos) @ Rs. 0.25			75		75
				9431		14090
11	Contingencies viz. cost of implements, signboard etc. 2%			250		375
	<b>Total</b>			<b>9681</b>		<b>14465</b>

**SCHEDULE OF RATES/BASIS OF EXPENDITURE FOR ONE HECTARE BAMBOO PLANTATION**  
(Small Bamboos e.g. Pareng )

S N	ITEMS OF WORK	Total mandays	Rate/ manday	Low Altitude	Rate/ manday	High Altitude
1	Survey, site clearance, removal of brushwood, stumps wherever necessary by retaining advanced growth in one hectare plantation area i.e. 10000 sq.m.	20	100	2000	150	3000
2	Collection of stakes of size 60-75 cm long and 2.5 cm. diameter (1000 nos)	5	100	500	150	750
3	Laying out of plantation pits (1000 nos)	5	100	500	150	750
4	Digging and refilling of plantation pits (1000 nos.) of size 45cm x 45 cm x 45 cm.	40	100	4000	150	6000
5	Collection of 1000 nos. of rhizomes from healthy clumps of native species from the nearby locality and carriage to planting site.	40	100	4000	150	6000
6	Planting of rhizomes, ramming and fixing of stick for support (1000nos.)	20	100	2000	150	3000
7	Royalty for 1000 bamboo rhizomes @ Rs. 65/100 nos.			650		650
8	1st Weeding including casualty beating during July-August	20	100	2000	150	3000
9	2nd Weeding in August September	10	100	1000	150	1500
				16650		24650
10	Contingencies i/c cost of signboards and implements 2%			333		493
	<b>Total</b>			<b>16983</b>		<b>25143</b>

**SCHEDULE OF ITEMS FOR ONE HECTARE MEDICINAL PLANTATION**

S N	ITEMS OF WORK	Total mandays	Rate/ manday	Low Altitude	Rate/ manday	High Altitude
1	Survey, site clearance, removal of brushwood, stumps wherever necessary by retaining advanced growth in one hectare plantation area i.e. 10000 sq.m.	20	100	2000	150	3000
2	Collection of stakes of size 60-75 cm long and 2.5 cm. diameter (4000 nos)	20	100	2000	150	3000
3	Laying out of plantation pits (4000 nos)	20	100	2000	150	3000
4	Digging and refilling of plantation pits (4000 nos.) of size 30cm x 30 cm x 30 cm.	66.67	100	6667	150	10001
5	Cost of seedlings 4000 nos. @ Rs.4.15 per seedling for low altitude and Rs.5.75/seedling for high altitude.		4.15	20750	6	23000
6	Collection and carriage of polybag seedlings from nursery to plantation site (4000 nos.)	25	100	2500	150	3750
7	Planting of seedlings and fixing of sticks(4000 nos)	40	100	4000	150	6000
8	1st Weeding including casualty beating during July-August	20	100	2000	150	3000
9	2nd Weeding in August September	10	100	1000	150	1500
				42917		56251
10	Contingencies i/c cost of signboards and implements 2%			858		1125
	<b>Total</b>			<b>43775</b>		<b>57376</b>

**SCHEDULE OF RATES/BASIS OF EXPENDITURE FOR ONE HECTARE PASTURE DEVELOPMENT**

S N	ITEMS OF WORK	Total mandays	Rate/ manday	Low Altitude	Rate/ manday	High Altitude
1	Survey, site clearance, removal of brushwood, stumps wherever necessary by retaining advanced growth in one hectare plantation area i.e. 10000 sq.m.	20	100	2000	150	3000
2	Collection of stakes of size 60-75 cm long and 2.5 cm diameter (200 nos)	1	100	100	150	150
3	Laying out of plantation pits (200 nos)	1	100	100	150	150
4	Digging and refilling of plantation pits (200 nos.) of size 30cm x 30 cm x 30 cm.	3.33	100	333	150	500
5	Collection and carriage of polybag seedlings from nursery to plantation site (200 nos.)	2.5	100	250	150	375
6	Cost of rhizomes of broom grass and other site/altitude specific grasses 1600 Nos.		1.00	1600	1.00	1600
6	Collection and carriage of site/altitude specific grass to plantation site by head load(1600 nos.)	6.40	100	640	150	960
7	Cost of seedlings 200 nos. @ Rs. 4.15/seedling for low altitude and Rs.5.75/seedling for high altitude.			830		1150
8	Laying out and planting of grass rhizomes in crobar holes at 2m x 2m spacing and ramming (1600 nos).	6.40	100	640	150	960
7	Planting of tree seedlings and fixing of sticks(200 nos)	2	100	200	150	300
8	1st Weeding including casualty beating during July-August	20	100	2000	150	3000
9	2nd Weeding in August September	10	100	1000		1500
				9693		13645
10	Contingencies i/c cost of signboards and implements 2%			190		266
	<b>Total</b>			<b>9683</b>		<b>13911</b>

**SCHEDULE OF RATES/BASIS OF EXPENDITURE FOR ONE HECTARE BAMBOO PLANTATION BY SEEDLINGS  
( LARGE BAMBOO e.g. Malibans)**

SN	ITEMS OF WORK	Work/ manday	Total mandays	Rate/ manday	Low Altitude
1	Survey, site clearance, removal of brushwood, stumps wherever necessary by retaining advanced growth in one hectare plantation area i.e. 10000 sq.m.	500 sq.m.	20	100	2000
2	Cost of 11 bamboos (Malibans) for making sticks for laying out of planting pits @ Rs. 70/-			70	770
3	Carriage of bamboo and preparation of sticks 625	400 sticks	1.56	100	156
4	Laying out of plantation pits 4m x 4m (625 nos)	200 pits	3.13	100	313
5	Digging and refilling of plantation pits (625 nos.) of size 30cm x 30 cm x 30 cm.	60 pits	10.42	100	1042
6	Cost of polypotted healthy seedlings 2' to 3' in height 625 nos.			15	9375
7	Headload carriage of seedlings from road head to work site 625 seedlings	200 seedlings	3.13	100	313
8	Planting of seedlings, fixing of sticks for support 625 Nos.	100 nos.	6.25	100	625
9	1st Weeding including				
	(a) Weeding, cleaning and climber cutting	1000 sq.m.	10	100	1000
	(b) soil working and mulching at the base of seedling 625-20% casualty =500 nos.	200 nos	2.5	100	250
	(c) Carriage of polybag seedlings for casualty beating 20% of 625=125 nos	80 nos	1.56	100	156
	(d) Planting in pits having dead seedlings 125 nos	100 seedlings	1.25	100	125

**SCHEDULE OF RATES/BASIS OF EXPENDITURE FOR ONE  
HECTARE BAMBOO PLANTATION BY RHIZOMES  
(Large Bamboo e.g. Malibans)**

SN	ITEMS OF WORK	Work/ manday	Total mandays	Rate/ manday	Low Altitude
1	Survey, site clearance, removal of brushwood, stumps wherever necessary by retaining advanced growth in one hectare plantation area i.e. 10000 sq.m.	500 sq.m.	20	100	2000
2	Cost of 7 bamboos (Malibans) for making sticks for laying out of planting pits @ Rs. 70/-			70	490
2	Carriage of bamboo and preparation of sticks 400 Nos	400 sticks	1	100	100
3	Laying out of plantation pits (400 nos)	200 pits	2	100	200
4	Digging and refilling of plantation pits (400 nos.) of size 60cm x 60 cm x 60 cm.	7.5pits	53.33	100	5333
5	Cost of healthy bamboo rhizomes 400 Nos. @ Rs. 60/each			60	24000
6	Digging of rhizomes from 2 year old healthy clump, collection and carriage of bamboo rhizomes from different locations to planting site 400 Nos	4Nos	100	100	10000
7	Planting of rhizomes, ramming etc.	25 Nos	16	100	1600
8	1st Weeding during July-August	500 sq.m.	20	100	2000
9	2nd Weeding in August-September	1000 sq.m.	10	100	1000
					46723
10	Contingencies i/c cost of signboards and implements 2%				934
	<b>Total</b>				<b>47657</b>

**REVISED BASIS OF EXPENDITRE FOR ONE HECTARE OF BROOM GRASS  
PLANTATION**

SL. NO	ITEMS OF WORK	RATE/ MANDAY	TOTAL MANDAYS	RATE/ MANDAY	LOW ALTITUDE
1	Preparation of site including cutting, cleaning of bushes weeds 10,000 sqm	500 sqm	20	100	2000
2	Laying out of planting pits 1600 nos	200 nos.	8	100	800
2	Cost of broom grass rhizomes with minimum 4-5 live shoots in each rhizomes= 1600 rhizomes @ Rs. 1.85			1.85	2960
3	Collection and carriage of rhizomes to plantation site within a radius of 3 kms, 50 rhizomes/bundles/head load=1,600/50 =32 buldies@ 4 head load/mandays	3 headload	8	100	800
4	Planting of rhizomes in crowbar holes 100 nos./mandays	100 nos.	16		1600
5	1st weeding with casualty replacement	500 sq.m.	20	100	2000
6	2nd weeding	1000 sq.m.	10	100	1000
					11160
7	Contingency includes cost of implements 2%				223
	<b>Total :</b>				<b>22543</b>

**REVISED SCHEDULED OF ITEMS FOR ONE HA. OF FODDER (PLANTATION)**

Sl. No.	Items of work	Rates/ manday	Total Mandays	Low Altitude	High Altitude
1	Survey, site clearance, removal of brushwood, stumps wherever necessary by retaining advance growth on one ha of plantation site	500 sqm	20	2000	3000
2	Collection of stakes of size 1 m. long and 2.5 cm dia (400 nos)	200 stakes	2	200	300
3	Laying out of plantation pits (400no) at 5m x 5m spacing	40 pits	2	200	300



Schedule of rate for Working Plan Survey in different altitude area. Size of plot for tree inventory 0.1. hac.size of the plot for shrubs inventory 3mx3m, size of plot for herbs inventory 1mx1m.

S N	Description of work	Mandays	Low altitude	High altitude		Very high altitude	
			Amount	Rate	Amount	Rate	Amount
	<b>Inventorying/Survey</b>						
1	Transportation charge of field party to nearest road head of the survey area.	L.S.	3200		4300		7900
2	Site clearance, climber cutting by 2 labourers	2 unskilled	200	150	300	175	350
		1 unskilled	100	150	150	175	175
3	Survey and demarcation of plot	1 skilled	130	195	195	228	228
		1 skilled	130	195	195	228	228
4	blazing and painting of trees	1 unskilled	100	150	150	175	175
5	Carrying of instruments and accessories	3 unskilled	300	150	400	175	525
		1 unskilled	100	150	150	175	175
6	field inventory for trees in 0.1 Ha. plot	1 skilled	130	195	195	228	228
		1 unskilled	100	150	150	175	175
7	Field inventory for shrubs in 3m x 3m plot	1 skilled	130	195	195	228	228
		1 unskilled	100	150	150	175	175
8	Field inventory for herbs in 1m x 1m plot	1 unskilled	100	150	150	175	175
		1 skilled	130	195	195	228	228
	<b>(A) Sub-Total for 1 plot</b>		4850		6725		10788
	<b>Camping for a group for 10 Plots</b>						
9	Carriage camping equipments	5 unskilled	500	150	750	175	875
10	Preparation of camping site & tent pitching	6 unskilled	500	150	750	175	875
11	Dismantling tents & headload carriage upto roadside.	10 unskilled	1000	150	1500	175	1750
12	Camp Khalasi & attendant fo 2 x 10 days	20 unskilled	2000	150	3000	175	3500
			4000		6000		7000
	<b>(B) Sub-Total for 1 plot</b>		400		600		700
	<b>Total of (A) + (B)</b>		5250		7325		11488
13	Contingencies 2%		105		147.00		230
	<b>Total</b>		5355		7472		11718

**SCHEDULE OF RATES/BASIS OF EXPENDITURE PER COMPARTMENT FOR FIELD WORK  
FOR PREPARATION OF PRELIMINARY WORKING PLAN REPORT**

Sl. No.	Description of work	Mandays Required	Low Altitude		High Altitude	
			Rate	Amount	Rate	Amount
1	Site clearance, climber cutting and complete	1 skilled	130	390	195	585
		unskilled	100	400	150	600
2	Transportation of equipments and labourers	LS		2000		2900
				2790		4085
3	Contingencies 2%			56		82
	<b>Total</b>			2846		4167

**Schedule of Rates for Maintenance of Afforestation/Artificial Regeneration/Fuelwood & Fodder Plantation**

Rates effective from 01.01.2008

S N	ITEMS OF WORK	Total mandays	Rate/ manday	Low Altitude	High Altitude
	<b>Second Year maintenance</b>				
1	1st Weeding i/c casualty beating during July-August				
	(a) Weeding, cleaning and climber cutting	8	100	800	1200
	(b) soil working and mulching at the base of seedling 1600-10% casualty =1440 nos.	3.60	100	360	540
	(c) Carriage of polybag seedlings for casualty beating 10% of 1600=160 nos	2	100	200	300
	(d) Planting in pits having dead seedlings 160 nos	1.60	100	160	240
	(e) Cost of seedlings for casualty beating 160 nos		4.15	664	920
	<b>Sub-Total</b>			<b>2184</b>	<b>3200</b>
2	2nd Weeding in August September				
	(a) Weeding, cleaning and climber cutting	8	100	800	1200
	(b) soil working and mulching at the base of seedling 1600 Nos.	4	100	400	600
	<b>Sub-Total</b>			<b>1200</b>	<b>1800</b>
	<b>Third Year Maintenance</b>				
1	Weeding during July-August				
	(a) Weeding, cleaning and climber cutting	8	100	800	1200
	(b) soil working and mulching at the base of seedling 1600 Nos.	4	100	400	600
	<b>Sub-Total</b>			<b>1200</b>	<b>1800</b>
	<b>Fourth Year Maintenance</b>				
1	Weeding during July-August				
	(a) Weeding, cleaning and climber cutting	8	100	800	1200
	<b>Total for Maintenance of Plantation upto the Fourth Year</b>			<b>5384</b>	<b>8000</b>

**SCHEDULE OF RATES FOR CLEARANCE OF ONE KM FOREST COMPARTMENT SURVEY**

SL. NO.	ITEM OF WORK	Total Mandays	Low Altitude	High Altitude	Very High Altitude
1	Preparation of survey line 2 m bycutting, clearing & removal of jungle if throwing & disposal of debris	46	4600	6900	8050
2	Cutting, collection, preparation, carrying and fixing of pegs at interval of 50 m.	2	200	300	350
3	Carrying and fixing of ranging rods at intervals of 50 m or as required	2	200	300	350
4	Measuring with chain and recording of measurements	2	200	300	350
5	Carriage of survey instruments and camp equipments		600	900	1050
			5800	8700	10150
6	Contingencies		200	300	350
	<b>Total</b>		<b>6000</b>	<b>9000</b>	<b>10500</b>



**SCHEDULE OF RATES FOR CLEARANCE OF ONE KM FOREST BOUNDARY SURVEY LINE**

SL. NO.	ITEM OF WORK	Total Mandays	Low Altitude	High Altitude	Very High Altitude
1	Preparation of survey line 4 m bycutting, clearing & removal of jungle i/ throwing & disposal of debris	92	9200	13800	16100
2	Cutting, collection, preparation, carrying and fixing of pegs at interval of 10 m.	2	200	300	350
3	Carrying and fixing of ranging rods at intervals of 50 m or as required	2	200	300	350
4	Measuring with chain and recording of measurements	2	200	300	350
5	Carriage of survey instruments and camp equipments	L.S	400	600	700
6			10200	15300	17850
7	Contingencies		200	300	350
	<b>Total</b>		<b>10400</b>	<b>15600</b>	<b>18200</b>

(Rupees Six thousand for Low Altitude (LA), Rupees Nine Thousand for High Altitude (HA) and Rupees Ten thousand four hundred for Very High Altitude (VHA) )

Note : Actual wage rate is 50% higher than Low Altitude (upto 8000 ft) for High Altitude (8001-12000 ft) and 75% higher than Low Altitude for Very High Altitude (12001-1600 ft) and 100% higher than Low Altitude for Extremely High Altitude ( 16001 ft above).

**SCHEDULE OF RATES/BASIS OF EXPENDITURE FOR ONE HECTARE BALLY BENCHING**

**LENGTH OF ONE BENCH = 10 METRES**

S		Total	Rate/	Low	Rate/	High
N	ITEMS OF WORK	mandays	manday	Altitude	manday	Altitude
1	Cutting sizing and carriage of live poles of easily sprouting site/altitude specific species for vertical 1.2 m long and 7.5 to 10 cm in diameter including fixing. 7 nos. per bench x 27 benches (189 nos.)	38	100	3800	150	5700
2	Cutting sizing and carriage of live poles of easily sprouting site/altitude specific species for horizontal 3 m long and 7.5 to 10 cm in diameter including fixing. 12 nos. per bench x 27 benches (324 nos.)	65	100	6500	150	9750
3	collection, carriage and planting of live hedge cuttings of 30 cuttings per headload (54 headloads)	18	100	1800	150	2700
4	Collection, carriage and fixing of brushwood on the uphill side of the bench including covering the brushwood with soil at the base to create terrace of 1 m width.	54	100	5400	150	8100
5	Royalty vide item No. 1. - 189 poles @Rs.11/each			2079		2079
6	Royalty vide item No. 2. - 324 poles @ Rs.11/each			3564		3564
7	Royalty vide item No. 3. - 1620 cuttings @ Rs. 0.25/each			405		405
				23548		32298
8	Contingencies i/c cost of signboards and implements 2%			471		646
	<b>Total</b>			<b>24019</b>		<b>32944</b>

# **SCHEDULE OF RATES/BASIS OF EXPENDITURE FOR ONE HECTARE HORTICULTURE DEVELOPMENT**

SN	ITEMS OF WORK	Total mandays	Rate/ manday	Low Altitude	Rate/ manday	High Altitude
1	Survey, site clearance, removal of brushwood, stumps wherever necessary by retaining advanced growth in one hectare plantation area i.e. 10000 sq.m.	20	100	2000	150	3000
2	Collection of stakes of size 60-75 cm long and 2.5 cm. diameter (400 nos)	2	100	200	150	300
3	Laying out of plantation pits (400 nos)	2	100	200	150	300
4	Digging and refilling of plantation pits (400 nos.) of size 30cm x 30 cm x 45 cm.	10	100	1000	150	1500
5	Cost of fruit seedlings 400 nos. @ Rs. 10/each			4000		4000
6	Carriage of fruit seedlings by mechanical transport upto the nearest roadhead @ Rs. 2/seedling (400 nos.)			800		800
7	Carriage of seedlings from roadhead to plantation site	5	100	500	150	750
8	Planting of fruit seedlings and fixing of sticks.	4	100	400	150	600
				9100		11250
9	Contingencies i/c cost of signboards and implements 2%			182		225
	<b>Total</b>			<b>9282</b>		<b>11475</b>

## **SCHEDULE OF RATES/BASIS OF EXPENDITURE FOR ONE KILOMETRE VEGETATIVE FENCING WITH LIVE HEDGE**

SN	ITEMS OF WORK	Total mandays	Rate/ manday	Low Altitude	Rate/ manday	High Altitude
1	Survey and preparation of fencing track including cutting, clearing of jungle one metre wide and 1000 metre length = 1000 sq.m.	2	100	200	150	300
2	Cutting, collection and carriage of 500 nos. of fencing posts of 7.5 to 10 cm. diameter and 2 m in length.	50	100	5000	150	7500
3	Cutting, collection and carriage of 1000 nos. cross bars of 3 to 5 cm diameter and 3 m. length.	40	100	4000	150	6000
4	Cutting, collection, carriage and planting (along the fence) of live hedge cuttings of 3 to 5 cm diameter of suitable site specific species, 6000 nos. (30 nos. per headload) i.e. 200 headloads	67	100	6700	150	10050
5	Digging of holes, fixing of posts & ramming (500 posts)	25	100	2500	150	3750
6	Tying of cross bars on posts with binding wire in 1000 metres length of fence.	5	100	500	150	750
7	Cost of binding wire 5 kgs @ Rs. 60/kg			300		300
8	Royalty of 500 nos. of posts @ Rs.11/each			5500		5500
9	Royalty of 1000 nos. of cross bars @ Rs8.5 each			8500		8500
10	Royalty of 6000 nos. of cuttings @ Rs. 25/100 nos.			1500		1500
				34700		44150
11	Contingencies i/c cost of implements, signboards etc.) 2%			694		883
	<b>Total</b>			<b>35394</b>		<b>45033</b>

## **SCHEDULE OF RATES/BASIS OF EXPENDITURE FOR ONE KILOMETRE AVENUE PLANTATION WITH IRON TREE GUARDS**

S N	ITEMS OF WORK	Total mandays	Rate/ manday	Low Altitude	Rate/ manday	High Altitude
1	Site clearance, removal of brushwood, stumps wherever necessary in 300 planting locations including digging and refilling of planting pits of size 45 cm x 45 cm x 45 cm at 3.3 m spacing	12	100	1200	150	1800

2	Cost of seedlings 300 nos.		4.15	1245	6	1725
3	Collection and carriage poly bag seedlings form nursery to plantation site by headload (300 nos.)	4	100	400	150	600
4	Collection and carriage of jungle manure by headloads for 300 pits @ 5 pits per headloads = 60 headloads	30	100	3000	150	4500
5	Mixing of manure with soil and Planting of seedling and fixing of sticks (300 nos)	5	100	500	150	750
6	Cost of prefabricated tree guards with 4 angle iron 30 mm x 30 mm x 6 mm and 1.5m length with , diameter of the tree guard being 45 cm. Inside and with wire net of 16BWG fixed with 3 bands of 2.5 cm x 3 mm iron patties welded to join the net with angle and patties and painted with red oxide and green paint @ Rs. 1500/each			450000		450000
7	Local transportation of tree guards to plantation site 300 tree guard @ Rs. 30 per tree guard		30	900		900
7	Carriage of stock materials by mechanical transport Tree guards 15 Kg. x 300 nos = 4500 kg. = 45.00 qtls. @ Rs. 27.90/Qtl.			1256		1256
8	Fixing the tree guard.	10	100	1000	150	1500
9	1st weeding including casually beating during July-August including carriage of seedlings, cleaning of base of seedlings including mulching.	6	100	600	150	900
10	2nd weeding during August September	4	100	400	150	600
				460501		464531
11	Contingencies i/c cost of implements, signboards etc. 2%			9210		9293
	<b>Total</b>			<b>469711</b>		<b>473824</b>

#### SCHEDULE OF ITEMS FOR ONE KILOMETRE AVENUE PLANTATION WITH BAMBOO BASKETS

SN	ITEMS OF WORK	Total mandays	Rate/ manday	Low Altitude	Rate/ manday	High Altitude
1	Site clearance, removal of brushwood, stumps wherever necessary in 500 planting locations including digging and refilling of planting pits of size 30 cm x 30 cm x 30 cm at 2 m spacing	20.00	100	2000	150	3000
2	Cost of seedlings 500 nos.		4.15	2075	5.75	2875
3	Collection and carriage poly bag seedlings form nursery to plantation site by headload (500 nos.)	6.25	100	625	150	938
4	Cost of cowdung manure 125 Doko/bag @ 4 pits per doko/bag @ Rs. 20/doko/bag			2500		2500
5	Headload carriage of cowdung manure 250 Doko or bag	25	100	2500	150	3750
6	Mixing of manure with soil in planting pits, planting of seedling and fixing of sticks (500 nos)	10	100	1000	150	1500
7	Cost of bamboo (Maibans) for preparation of baskets (one bamboo for two baskets) 500/2=250nos. @ Rs60 per bamboo.			15000		15000
8	Carriage of 250 bamboo from source to plantation site by headload.	31.25	100	3125	150	4688
9	Preparation of bamboo baskets for protection of the planted seedlings from grazing. 500 baskets.	100	83.33	8333	150	12500
10	Erection of bamboo basket around the planted seedlings. 500 baskets	10	100	1000	150	1500
11	1st weeding and casually beating , soil working and mulching during July-August.(500 seedlings)	10	100	1000	150	1500
12	2nd weeding in August September	6.666666667	100	667	150	1000
				39825		50750
13	Contingencies i/c cost of implements, etc 2%			881		507
	<b>Total</b>			<b>40706</b>		<b>51257</b>

**SCHEDULE OF RATES/BASIS OF EXPENDITURE FOR ONE HECTARE SOWING/  
DIBBLING/BROADCASTING IN LANDSLIDE AREAS**

SN	ITEMS OF WORK	Total mandays	Rate/ manday	Low Altitude	Rate/ manday	High Altitude
1	Collection of seeds of <i>Alnus nepalensis</i> , <i>Albizia</i> species, <i>Schima Wallichii</i> , <i>Erythrina</i> Species, Walnut, Lapsi, Tooni, Bhadrasesey, Chekrasi, Arupatey and other suitable species (40Kg.seeds)	20	100	2000	150	3000
2	Preparation of site for broadcasting in 50% area i.e. 50% of 10,000 sq.m. = 5000 sq.m.	10	100	1000	150	1500
3	clearing, levelling of site for dibbling in the remaining 50% area i.e. 5000 sq.m.	10	100	1000	150	1500
4	Soil working for dibbling of seeds in 5000 sq.m. area at 2.5 m x 2.5 m x 2.5 m spacings spacing. (800 seeds)	8	100	800	150	1200
5	Staking & dibbling of seeds at 2.5 m (5000 Nos.)	8	100	800	150	1200
6	Broadcasting of seeds in remaining 5000 sq.m	5	100	500	150	750
7	Collection of live hedge cuttings of 4 to 5 cm. diameter by head load (30 cuttings per headload) including planting along the contour in 2m rows in staggered manner (100 head loads)	50	100	5000	150	7500
8	Royalty of cuttings, 3000 nos @ Rs. 0.25 each			750		750
				11850		17400
9	Contingencies i/c implements, signboard etc. 2%			237		348
	<b>Total</b>			<b>12087</b>		<b>17748</b>

**SCHEDULE OF RATES/BASIS OF EXPENDITURE FOR 1 (ONE) HECTARE 2-TIER PLANTATION  
IN URBAN & SUB-URBAN AREAS**

S N	Description of Work	Unit	Quantity/ manday	Total Mandays	Rate Low Altitude	Amount Low Altitude
1	Survey of the area, clearing of unwanted ground vegetation, uprooting of shrubs and stumps and stacking of debris along the contour.	sq. m.	500	20	100	2000
2	Collection of stakes of size 60-75 cm length and 2.5 cm dia. (1600+1000 = 2600 nos.)	nos.	200	13	100	1300
3	Laying out of planting pit with 1" dia and 1m long sticks at 2.5m x 2.5 m. spacing.	pits	200	13	100	1300
4	Digging of planting pits of size 30cm x 30cm x 30 cm for planting 2600 seedlings	pits	60	43.33	100	4333
5	cost and carriage of manure for 2600 pits @ 10 pits / bag	bags			20	5200
8	Procurement of tree seedlings	nos.			4.15	6640
9	Procurement of ornamental seedlings of bushy flowering plants in poly bags from local growers.	nos.			20	20000
10	Collection and carriage of seedlings in poly bags from departmental nurseries to plantation sites.	nos.	80	20	100	2000
	(b) headload carriage of ornamental & flowering plants from road head to plantation site.	nos.	200	5	100	500

11	Mixing of manure with soil in planting pits.	pits	200	13	100	1300
12	Planting of seedlings after carefully removing the polythene without disturbing the ball of earth including stacking for support and light ramming with foot and to provide drainage to prevent water logging in the pit.	seedlings	100	26	100	2600
13	1st Weeding in August including 20% casualty beating					
	(a) Weeding of plantation area (10000 sq.m.)	sq.m.	1000	10	100	1000
	(b) Cleaning of base (thali) of the planted seedling	nos.	150	17	100	1700
	(b) Removing dead seedling, digging of pit and planting with fresh poly bag seedlings in 20% pits.	pits	50	10	100	1000
14	2nd weeding	sq.m.	1000	10	100	1000
15	Second Year					
	1st Weeding in August including 20% casualty beating					
	(a) Weeding of plantation area (10000 sq.m.)	sq.m.	1000	10	100	1000
	(b) Cleaning of base (thali) of the planted seedling	nos.	150	17	100	1700
	(b) Removing dead seedling, digging of pit and planting with fresh poly bag seedlings in 20% pits.	pits	50	10	100	1000
15	Second weeding	sq.m.	1000	10	100	1000
						56573
17	Contingencies i/cimpliments, signboard etc. 2%					1131
	<b>Total</b>					<b>57704</b>

#### SCHEDULE OF RATES/BASIS OF EXPENDITURE FOR 100 SQUARE METRES TURFING

S N	ITEMS OF WORK	Total mandays	Rate/ manday	Low Altitude	Rate/ manday	High Altitude
1	Site clearing by uprooting of shrubs and bushes and disposal of the debris. 100 sq.m.	0.2	100	20	150	30
2	Digging and removing all ground vegetation, sorting out of grasses, roots, stones from the work site and disposal of the debris in 100 sq.m.	12.50	100	1250	150	1875
3	cutting down of humps and filling up the undulating areas to give smooth surface to the ground.	10.00	100	1000	150	1500
4	Digging of soil upto a depth of 15cm, pulverising of the soil, removing all pebbles, roots and pulverising soil	10.00	100	1000	150	1500
5	Cost of cowdung manure 10 Doko(basket) per 100 sq.m. @ Rs. 20 per doko			200		200
6	Headload Carriage of manure from place of collection to road head by headload	1	100	100	150	150
7	Carriage of manure by mechanical transport 1 truck load		3000	3000	3000	3000
8	Headload carriage of manure from road head to work site	0.5	100	50	150	75
9	Mixing of manure with soil and spreading the mixture in 100 sq.m. area in same thickness all over	10.00	100	1000	150	1500
10	Cost of 100 sq.m. turf @ Rs. 100 per sq.m.		100	10000	100	10000
11	Carriage of Turf slabs in approx 30cm x 30 cm. by head load from place of collection to road head	5	100	500	150	750
12	Loading in truck 100 sq.m. layer of turf	2	100	100	150	300
13	Carriage of turf by mechanical transport from within a distance of 10-15 kms. 10 cu.m. (100 doko per truck)		2807	281	2807	281
14	Unloading of turf slabs	2	100	200	150	300
15	Headload Carriage from roadhead to work site	5	100	500	150	750

12	Loading in truck 100 sq.m. layer of turf		2	100	100	150	300
	Carriage of turf by mechanical transport from within a distance of 10-15 kms. 10 cu.m. (100 doko per truck)			2807	281	2807	281
13							
14	Unloading of turf slabs		2	100	200	150	300
	Headload Carriage from roadhead to work site		5	100	500	150	750
15							
16	Planting of turf on the prepared ground and ramming		10	100	1000	150	1500
	Watering and maintenance for 30 days by 1 labour		30	100	3000	150	4500
17							
					23201		28211
	Contingencies i/c cost of implements. Signboard etc. 2%				439		547
18							
	<b>Total for 100 Sq.Metres</b>				<b>23640</b>		<b>28758</b>

## 27. Conversion of timber at Chuba Saw Mill

(Conversion only under Utilization Division-Departmental)

S.No.	Particulars	Rate (Rs.)
1	Rolling, dragging of logs from log yard to Saw bench @ Rs. 5/-per cft.	5.00
2	Sawing cutting of timber at was mill @ Rs. 10/-per cft.	10.00
3	Separation of firewood from saw mill @ Rs.2/-per pile	2.00
4	Stocking of timber at was mill @ Rs.2/-per cft	2.00
5	Head load carriage of timber from saw mill to road head.	3.00
6	Loading / unloading including arrangement of timber inside the store 2 Rs.8/-per cft.	8.00
	<b>Total</b>	<b>30.00</b>
	Carriage of sawn timber from Chhuba Sawmill to Deorali Forest Sale epot (20 Km. distance) @ Rs. 260.72/10 qtls24 qtl. X Rs.5.70 x 20 Kms. = Rs.3420/200 cft	14.00
	<b>Total</b>	<b>44.00</b>

Note : For Private Party the Conversion Rate to be applied Rs.30/- only.

## 28. Thinning Work (per pole) under Utilization Division

S.No.	Particulars	Rate	
	Low Altitude	High Altitude	
1	Clearing and clearance around the tree 1 lab. For 15 mns @ Rs.100/- for 8 hrs per tree.	3.50	5.25
2	Cutting, felling, looping, pruning, of twigs and branches 1lab. For 1 hs @ Rs.100/- average 3 nos. from each pole.	12.50	18.75
3	Logging in required size of ballies by 2 labs. With cross cut saw required for 1 hrs @ Rs.100/- for 8 hr per pole.	25.00	37.5
4	Dragging, rolling, sliding of ballies from work site to nearest stocking site upon 100 mtrs 1 hr job per pole @ Rs. 100/- for 8 hrs.	12.50	18.75
5	Head load carriage of bally from stocking site to road head upto 100 mts.	5.00	7.50
6	Loading of ballies / poles @ Rs.5/- per bally	5.00	7.50
7	Unloading of ballies and restracking in a safe place @ Rs.7/- per piece.	7.00	10.5
8	Cost of carriage by truck @ Rs.5.70 x km x mts (one full load) or 1 bally contains 25 kg = 5.70 x 75 :- 25 kgs.	17.00	17.00
	<b>Total</b>	<b>87.50</b>	<b>122.8</b>
	<b>or say</b>	<b>88.00</b>	<b>123.00</b>

29. Manufacturing of Charcoal by manual labour and skilled kiln expert manufacturing of 1 bag (containing 40 kg) charcoal.



S.No.	Particulars	Rate
1	Cutting, felling of dead dying diseased trees / ballies branches into small required size of billate a per the size of charcoal kiln 2 labrs. For 3 hrs @ Rs. 100/-	37.50
2	Digging for making charcoal kiln with stocking of logs ballies, branches, twigs, including covering of kiln by mud etc. all complete. 2 labrs for 4 hrs. @ Rs. 100/- per day	50.00
3	Burning of kiln and adding logs ballies with mud covering (minimum 15 to 30 days for converting charcoal) 1 labrs for 2 hrs job @ Rs. 100/- per day.	25.00
4	Extinguishing and filling of charcoal into gunny bags @ Rs.2/- per bags	2.00
5	Carriage up to road site 300 m @ Rs5/- per bag.	5.00
6	Loading and unloading charge and rearranged in store @ Rs.6/- per bag.	6.00
7	Cost of gunny bag as per recent prevailing rate Rs.25/- per bag.	25.00
8	Contingency charge for tools, handling and supervision @ 2%.	3.00
<b>Total</b>		<b>153.50</b>
<b>or say</b>		<b>154.00</b>

30. Basis of expenditure for conversion of 1 (one) pile firewood under Utilization Division.

Sl. No.	Particulars	Rate Low Altitude	High Altitude
1	Cutting felling of trees / poles including pruning of branches and tops by ax /saw. 2 labrs. For 2 hrs. @ Rs.100/- for 8 hrs.	50.00	75.00
2	Sizing splitting of logs/braches into required size. 2 labrs for 2 hrs.	50.00	75.00
3	Pilling of firewood into standard size 5' x 5' x 2 1/2 For 2 hrs. @ Rs100/- for 8 hrs.	25.00	37.50
4	Head load carriage of firewood from wood site to road site up to 300 mts. 1 labrs for 2 hrs.	25.00	37.50
5	Loading an unloading of firewood arranging in truck and unloading at store and rearrangement. 4 labrs.for 2 hrs.	100.00	150.00
6	Transportation by truck within 75 km radius capacity 8 piles of firewood/6 mt @ 5.70 x 75 x 6 = Rs.2565/8	320.00	320.00
7	Contingency including cost of implements and supervision charges @ 2%	11.00	16.00
<b>Total</b>		<b>581.00</b>	<b>711.00</b>

31. Basis of Expenditure FOR engagement of high skilled loggers for removal of posing danger trees around Town areas, National Highways, Heavy Traffic Road Side, Densely populated areas, in front of Institution, (Mostly the loggers has to work after 5 p.m and up till late night).

Sl. No.	Girth class	Wages prior to 1.4.2008 (Rs)	Approx. cost of extraction Vide approval no. 73/GOS/ FEWMD Dt.18.1.2008 (Rs)	Wages revised w.e.f 1.4.2008. 38.30% increased (Rs)	Actual increase in wages as w.e.f. 1.4.2008 (38.30%	Total cost extraction as per revised wage rate (Rs)	Contingency rate @ 2% (provision for ropes, implements etc.	Total(Rs)
1	3' to 5'	94	3000	130	1149	4149	23	4172
2	5' to 6'	94	5000	130	1915	6915	38	6953

32. Basis of Expenditure engagement of high skilled loggers for removal of posing danger trees around Town areas, National Highways, Heavy Traffic Road Side, Densely populated areas, in front of Institution, Quarters, Offices and other which will pose danger to human life and properties within Sikkim Mostly the loggers has to work after 5 p.m and up till late night.

**(I) 7 to 8 feet girth class).**

<b>Description of work</b>	<b>Amount (Rs.)</b>
Cutting clearanc of bushes of jungle around trees, climbing with ropes, teing on branches. where ever possible, cutting, puilling and felling of branches in small pieces. Cutting of main trunk in several pieces and safely bring down to earth with ropes, removal of branches cutting into required size a lops and tops. The progress of works depends upon the clearance of Police Personal who will two day work @ Rs.130x15x3	5850
Cutting of logs / ballies / firewoods and piling at work site, head load carriage to road side in a rapid manner by 15 labours for one day work @ Rs.130x15	1950
Loading of ballies / logs/ firewoods and unloading at Chuba saw mill including stacking of logs and rearrangement of firewood in pile all complete 15 laboures for one day work Rs.130x15	1950
Contingency 2%	9750
<b>Total</b>	195
	<b>9945</b>

**(II) 8 to 9 feet girth class**

Cutting clearanc of bushes of jungle around trees, climbing with ropes, teing on branches where ever possible, cutting, puilling and felling of branches in small pieces. Cutting of main trunk in several pieces and safely bring down to earth with ropes, removal of branches cutting into required size a lops and tops. The progress of works depends upon the clearance of Police Personal who will give instuctions to loggers to continue the work or to stop 15 labours for three day work @ Rs.130x15x3	5850
Cutting of logs / ballies / firewoods and piling at work site, head load carriage to road side in a rapid manner by 15 labours for one day work for 12 hrs Rs.130 x 15 x 1.5	2925
Loading of ballies / logs/ firewoods and unloading at Chuba saw mill including stacking of logs and rearrangement of firewood in pile all complete 15 laboures for one day work Rs.130 x 15 x 1	1950
Contingency 2%	10725
<b>Total</b>	215
	<b>10940</b>

**(III) 9-10 feet girth class**

Cutting clearanc of bushes of jungle around trees, climbing with ropes, teing on branches where ever possible, cutting, puilling and felling of branches in small pieces. Cutting of main trunk in several pieces and safely bring down to earth with ropes, removal of branches cutting into required size a lops and tops. The progress of works depends upon the clearance of Police Personal who will give instructions to loggers to continue the work or to stop 15 laboures for three day work @ Rs.130 x 15 x 3.5	6825
Cutting of logs / ballies / firewoods and piling at work site, head load carriage to road side in a rapid manner by 15 labours for 12 hrs work @ 130 x 15 x 1.5	2925
Loading of ballies / logs/ firewoods and unloading at Chuba saw mill including stacking of logs and rearrangement of firewood in pile all complete 15 laboures for 12 hrs work @ Rs.130 x 15 x 1.5 =	12675
Contingency 2%	254
<b>Total</b>	<b>12929</b>

27. Conversion of timber at Chuba Saw Mill  
(Conversion only under Utilization Division-Departmental)

S.No.	Particulars	Rate
1	Rolling, dragging of logs from log yard to Saw bench @ Rs. 5/-per cft.	5.00
2	Sawing cutting of timber at was mill @ Rs. 10/-per cft.	10.00
3	Separation of firewood from saw mill @ Rs.2/-per pile	2.00
4	Stocking of timber at was mill @ Rs.2/-per cft	2.00
5	Head load carriage of timber from saw mill to road head.	3.00
6	Loading / unloading including arrangement of timber inside the store Rs.8/-per cft.	8.00
	<b>Total</b>	<b>30.00</b>
	Carriage of sawn timber from Chhuba Sawmill to Deorali Forest Sale Depot (20 Km. distance) @ Rs. 260.72/10 qtls	
	24 qtl. X Rs.5.70 x 20 Kms. = Rs.3420/200 cft	14.00
	<b>Total</b>	<b>44.00</b>
	Note : For Private Party the Conversion Rate to be applied Rs.30/- only.	

28. Thinning Work (per pole) under Utilization Division

S.No.	Particulars	Rate Low Altitude	High Altitude
1	Clearing and clearance around the tree 1 lab. For 15 mns @ Rs.100/- for 8 hrs per tree.	3.50	5.25
2	Cutting, felling, looping, pruning, of twigs and branches 1lab. For 1 hs @ Rs.100/- average 3 nos. from each pole.	12.50	18.75
3	Logging in required size of ballies by 2 labs. With cross cut saw required for 1 hrs @ Rs.100/- for 8 hr per pole	25.00	37.5
4	Daragging, rolling, sliding of ballies from work site to nearest stocking site upon 100 mtrs 1 hr job per pole @ Rs. 100/- for 8 hrs.	12.50	18.75
5	Head load carriage of bally from stocking site to road head upto 100 mts.	5.00	7.50
6	Loading of ballies / poles @ Rs.5/- per bally	5.00	7.50
7	Unloading of ballies and restracking in a safe place @ Rs.7/- per piece.	7.00	10.5
8	Cost of carriage by truck @ Rs.5.70 x km x mts (one full load) or 1 bally contains 25 kg = 5.70 x 75 :- 25 kgs.	17.00	17.00
	<b>Total</b>	<b>87.50</b>	<b>122.8</b>
	<b>or say</b>	<b>88.00</b>	<b>123.00</b>

29. Manufacturing of Charcoal by manual labour and skilled kiln expert manufacturing of 1 bag (containing 40 kg) charcoal.

S.No.	Particulars	Rate
1	Cutting, felling of dead dying diseased trees / ballies branches into small required size of billate a per the size of charcoal kiln 2 labs. For 3 hrs @ Rs. 100/-	37.50
2	Digging for making charcoal kiln with stocking of logs ballies, branches, twigs, including covering of kiln by mud etc. all complete. 2 labrs for 4 hrs. @ Rs. 100/- per day	50.00
3	Burning of kiln and adding logs ballies with mud covering (minimum 15 to 30 days for converting charcoal) 1 labrs for 2 hrs job @ Rs. 100/- per day	25.00
4	Extinguishing and filling of charcoal into gunny bags @ Rs.2/- per bags	2.00
5	Carriage up to road site 300 m @ Rs5/- per bag.	5.00
6	Loading and unloading charge and rearranged in store @ Rs.6/- per bag.	6.00
7	Cost of gunny bag as per recent prevailing rate Rs.25/- per bag.	25.00
8	Contingency charge for tools, handling and supervision @ 2%.	3.00
	<b>Total</b>	<b>153.50</b>
	<b>or say</b>	<b>154.00</b>

30. Basis of expenditure for conversion of 1 (one) pile firewood under Utilization Division.

Sl. No.	Particulars	Rate Low Altitude	High Altitude
1	Cutting felling of trees / poles including pruning of branches and tops by axe / saw. 2 labrs. For 2 hrs. @ Rs.100/- for 8 hrs.	50.00	75.00
2	Sizing splitting of logs / braches into required size. 2 labrs for 2 hrs.	50.00	75.00
3	Piling of firewood into standard size 5' x 5' x 2 1/2 For 2 hrs. @ Rs100/- for 8 hrs.	25.00	37.50
4	Head load carriage of firewood from wood site to road site up to 300 mts. 1 labrs for 2 hrs.	25.00	37.50
5	Loading an unloading of firewood arranging intruck and unloading at store and rearrangement. 4 labrs. for 2 hrs.	100.00	150.00
6	Trabsportation by truck within 75 km radius capacity 8 piles of firewood is equivalent to 6 mt @ 5.70 x 75 x 6 = Rs.2565 :- 8	320.00	320.00
7	Contingency including cost of implements and supervision charges @ 2%	11.00	16.00
<b>Total</b>		<b>581.00</b>	<b>711.00</b>

**SCHEDULE OF RATES FOR DIFFERENT SERICULTURE ACTIVITIES, TOOLS AND APPLIANCES,  
REQUIRED UNDER THE SERICULTURE DIRECTORATE, FOREST DEPARTMENT GOVT. OF SIKKIM.  
(Rates are effective from 01.04.2008)**

1. Plantation of Mulberry and Kutmero Seedlings; (500 number of seedlings/saplings; (for conducting 100 dfls. rearing)

Sl.No	ITEMS OF WORK:	Work/ Manday	Total Manday	Rate/ Manday	Total Cost Rs.
01.	Site cleaning by sickle weeding, uprooting of shrubs and bushes, disposal of debris. 3564 sq.m.	500 sq.m.	07	100	700
02.	Digging & making of pits, 20"x20"x18", in 3564 sq.m.	250 Nos.	02	100	200
03.	Head load carriage of cowdung with 100 m. distance, 50 doko (basket) @ 1 doko in 10 pits.	25	02	100	200
04.	Uprooting and carriage of saplings, within 200 m. distance.	2500	1/5	100	20
05.	Cost of good quality dry cowdung 100 doko @ 20/- per doko, 20,kg in standard doko (basket)	100		20	2000
06.	Plantation of seedlings, filling with 50:50 soil cowdung missing & staking complete: 500 Nos.	250	4.75	100	250
07.	Cleaning of entire plantation area with hand weeding of individual plants in 3564 sq.m.	750 sq.m.	4.75	100	475
08.	Thorough, (15 cm) in depth digging of plantation area and pulverising the soil, 3564 sq.m.	210 sq.m.	17	100	1700
09.	Digging & soil missing, only in around of individual plants, within 1 m. in radius. 500 sq.m.	85.sq.m.	5	100	500
10.	Pruning of plants at the suitable height of 5 feet, above the ground (as specified);	500 Nos.	½	100	50
11.	Collection of pruned branches/twigs within 200 m. distance: Contingency: 2%	2000 kg.	½	100	50 123
12.	Total of 500 Nos. in 1500 sq.m.				6268
2.	Maintenance of tree type Mulberry/ Kutmero, plantations 500 Number in 3564 sqm.area.				

Sl.No	ITEMS OF WORK:	Work/ Manday	Total Manday	Rate/ Manday	Total Cost Rs.
01	Cleaning of plantation area, with sickle followed by hand weeding around individual plants: in 3564 sq.m.	500 sq.m.	7	100	700
02.	Digging thoroughly in 15 cm depth and removal of ground vegetation, disposal of debris in 3564 sq.m.	100 sq.m.	35	100	3500
03.	Digging in 15 cm depth only around the plants, and removal of ground vegetation of 500 Nos. plants in 3564 sq.m.	250 Nos.	2	100	200
04.	Head load carriage of 100 dokoCowdung, within 100 m. distance, and application in 500 Nos. plants.	20 doko	5	100	500
05.	Cost of 100 doko good quality dry cowdung manure; @ 20/- doko (basket) each containing 20 kg. standard;	100		20	2000
06.	Casualty gap re-filling of plants, as per the need, for 100 Nos. uprooting of saplings, making pits planting, and staking complete.	100 Nos.	2	100	200
07.	Prunning of plant, at 5 feet above the ground and Collection/ stocking of twigs/branches (2500 kg). within 100 m. distance.	500 Nos.	01	100	100
	Contingency: 2%				146
	Total; of 500 Nos. plants:				7446

3. Plantation of Mulberry plantation in 2025 sq.m. (2000 number of saplings for conducting 100 dfls. rearing)

Sl.No	ITEMS OF WORK:	Work/ Manday	Total Manday	Rate/ Manday	Total Cost Rs.
01.	Site cleaning by sickle weeding, uprooting of shrubs and bushes: 2000 sq.m.	500 sq.m.	04	100	400
02.	Digging and removing all ground vegetations, sorting out grasses, roots, stones and disposal of debris in 400 sq.m.	10 sq.m.	40	100	4000
03.	Digging of soil up to a depth of 15 cm, pulverising soil, removing all roots, debris Within 100 m. distance.	30 sq.m.	13	100	1300
04.	Head load carriage of 200 dokoCowdung, and mixing with soil in 400 sq.m.	25 sq.m.	8	100	800
05.	Cost of 200 doko good quality cowdung Manure, 1 doko=20 kg. @20/- stand.doko	200		20	4000
06.	Uprooting of saplings, including head load within 100 m. distance. 2000 Nos.	2500 Nos.	1	100	100
07.	Plantation of saplings at a distance of 3'x3' plant to plan row to row.	1000 Nos.	2	100	200
08	Winter watering in 1 <sup>st</sup> year only, in every alter weeks.		30	100	3000
9.	Cleaning, hand weeding of entire plantation area. 2000 sq.m.	500 sq.m.	04	100	400
10.	Prunning of plants,(bush), leaving suitable number of stumps, at the height of 2 – 2.5 feet above ground;	500 Nos.	1	100	100
11.	Collection of pruned branches/twigs and stocking within 100 m. distance. 2500 kg.	2500	1	100	100
12.	Digging of plantation area, 2000 sq.m. and application of lime @ 500 kg.	400 sq.m.	15	100	1500
	Contingency:	2%			318
	Total of 2000 Nos. in 2000 sq.m.		119		16218

4. Maintenance of Bush type mulberry plantation; (2000 Number in 2000 sq.m)

Sl.No	ITEMS OF WORK:	Work/ Manday	Total Manday	Rate/ Manday	Total Cost Rs.
01.	Cleaning of plantation area with sickle followed by hand weeding, in 2000 sq.m.	500 sq.m.	4	100	400
02.	Digging thoroughly, 15 cm in depth, removal of ground vegetations in 2000 sq.m.	45 sq.m.	45	100	4500
03.	Digging 15 cm in depth, only around plants in 4' radius and collection of debris within 100 m. distance in 2000 sq.m.	150 Nos.	14	100	1400
04.	Head load carriage of 40doko,(basket) dry good quality cowdung within 200 m. distance including application.	100 sq.m.	21	100	2100
05.	Cost of 400 doko good quality dry cowdung manure, 1 doko, containing 20 kg standard; @ 20/- each.	400		20	8000
06.	Casualty gap re-filling; 200 Nos. (minimum 200 Nos.), uprooting of saplings, making pits manuring, planting and staking; complete:	50 Nos.	4	100	400
07.	Pruning of plants, at 2- 2.5 feet above the ground, removing all unwanted branches, leaving only few healthy one.	1000 Nos.	3	100	300
08.	Collection of pruned branches/twigs and stocking (2500 kg) within 200 m. distance.		1	100	100
	Contingency: 2%				344
	Total 2000 Nos. in 2000 Sq.m.				17544

5. Raising the Castor plants (750Nos.) in 1500 sq.m. area (for conducting 150 dfls. Eri Silkworm rearing)

Sl.No	ITEMS OF WORK:	Work/ Manday	Total Manday	Rate/ Manday	Total Cost Rs.
01.	Site cleaning, weeding, uprooting and removal of ground vegetation within 100 m. distance: 1500 sq.m.	500 sq.m.	3	100	300
02.	Digging, 15 cm depth, pulverising soil, removal of debris in 100 m. distance, in 1500 sq.m.	45 sq.m.	33	100	3300
03.	Head load carriage of cowdung, 150 doko (basket) Cowdung, from 100 m. distance		7	100	700
04.	Cost of good quality 150 doko cowdung, @ 20/- for standard doko of 20 kg.	150		20	3000
05.	Making pits, at 2m 2m distance, plant to Plant, row to row, 750 Nos. and sowing of castor seeds, staking complete:		2	100	200
06.	Cleaning by sickle in entire plantation area and hand weeding of individual pits (750 Nos.) of bushes complete:	350 sq.m.	4	100	400
	Contingency: 2%				160
	Total cost, in 1500 sq.m. (750 Nos.) bushes.				8160

6. Raising the Tapioca Plants (750 Nos.) in 1500 sq. m. (for conducting 100 dfls. Eri silkworm).

Sl.No	ITEMS OF WORK:	Work/ Manday	Total Manday	Rate/ Manday	Total Cost Rs.
01.	Site Cleaning, weeding uprooting and removal of ground vegetation within 100 m distance in 1500 sq.m.	500 sq.m.	3	100	300
02.	Soil work, by digging 15cm in depth, and pulverising the soil in 1500 sq.m.	45 sq.m.	33	100	3300
03.	Head load carriage of cowdung, 150 doko(basket) from 100 m distance and mixing.		7	100	700
04.	Cost of 150 doko, good quality cowdung, @ 20/ per standard doko;	150		20	3000
05.	Making furrows; application of manure and mixing with soil in 1500 sq.m.	750 sq.m.	2	100	200
06.	Preparation of Tapio cuttings, 10-12" in length having 2 active bud and inserting into furrows, and covering by loose soil; at a	2	100	200	



distance of 2m from each other.			
07. Cleaning, sickle weeding of plantation area; 1500 sq.m.	4	100	400
Contingency: 2%			162
Total: in 1500 sq.m.			8262

7. Raising of Mulberry saplings from the cutting ( 50,000 Nos.) in 5632 sq.m.					
Sl.No	ITEMS OF WORK:	Work/ Manday	Total Manday	Rate/ Manday	Total Cost Rs.
01.	Site cleaning, with sickle, uprooting of groundVegetation, and disposal of debris within100 m. distance. in 5632 sq.m.	700 sq.m.	08	100	800
02.	Soil work, digging 15 cm in depth, cleaning grasses, pebbles etc. and dumping in 100 m. distance. complete; in 5632 sq.m.	170 sq.m.	33	100	3300
03.	Head load of cowdung 300 doko (basket) from 100 m. distance, and mixing with soil in the ara of 5632 sq.m.		14	100	1400
04.	Cost of good quality cowdung manure, 300 doko, @20/- standard doko containing 20 kg each.	300		20	6000
05.	Raising of Nursery beds, 20'x6' size, 30 cm above ground having leaving 2' gap in between each other, 96 Nos. in 5632 sq.m.	10 Nos.	9.5	100	950
06.	Thoroughly watering entire Nursery beds, before mulching and inserting the mulberry cutting; in 96 Nos. beds;	48 Nos.	2	100	200
07.	Mulching of nursery beds, with collection of jungle/ dry leaves or black poly cloth in 96 Nos. beds:	12 Nos.	8	100	800
08.	Selection of mulberry twings matured and pencil size, and chopping the cuttings of the length of 15 cm having 3 nos. active buds in it with sharp knife or secature; 50000 Nos.	5000 Nos.	10	100	1000
09.	Selection of suitable best and un damaged cuttings, treatment with hormones/ anti fungal etc, and inserting into the beds, at the gap of 6"x6" length and breadth wise.	2000 nos.	25	100	2500
10.	Cleaning and weeding of nursery area, only outer area without disturbing othe cuttings into the beds: in 5632 sq.m.	1408 sq.m.	4	100	400
11.	Cleaning and hand weeding of Nursery area and individual beds; only after establishment of plants: in 96 beds;	235 sq.m.	24	100	2400
12.	Watering of Nursery beds, in every alternate day, (January to April) 15 manday/ month.		60	100	6000
13.	Cleaning, weeding and assessment of survival of the cuttings:	24 beds.	4	100	400
14.	Uprooting of saplings, and bundling including head load within 100 m. distance (50,000 Nos).	2500 Nos.	20	100	2000
	Contingency 2%				563
	Total of (50,000 Nos.) saplings in 5632 sq.m.				28713

8. Schedule of Rates/ Basis for expenditures for raising the Kutmero Seedlings(20,000 Nos.) in 1000 sq.m. area					
Sl.No	ITEMS OF WORK:	Work/ Manday	Total Manday	Rate/ Manday	Total Cost Rs.
01.	Site cleaning, uprooting of ground vegetation, and collection within 100 m.distance: in 1000 sq.m	500 sq.m.	02	100	200
02.	Soil work; digging in 15 cm depth, cleaning grasses, pebbles, pulverizing of soil, and dumpingWithin 100 m. distance;	170 sq.m.	5.8	100	588.2
03.	Head load carriage of cowdung manure, from100 m. distance, (50 doko) and missing in soil.		2.5	100	250
04.	Cost of 50 doko good quality cowdung manure, @ 20/ per standard doko containing 20 kg.each.	50		20	100
05.	Raising of Nursery beds above 30 cm above, size 20'x6' (18 Nos.)	10 Nos.	2	100	200
06.	Collection of Kutmero quality seeds: by deploying the manpower: (10 kg). in 1000 sw.m.	10	100	1000	
07.	Sowing of seeds into nursery beds, and covering with soil and				

	mulching with leaves/grasses etc.	250 sq.m.	4	100	400
08.	Cleaning the area, and light weeding of nursery beds; in 1000 sq.m, two time in a year.	235 sq.m.	8.6	100	8600
09.	Watering of Nursery beds, during dry months (January to April) in every alternate day. In 1000 sq.m. for first year only.		60	100	6000
10.	Weeding, and survival assessment, and transforming into the poly bags; 20,000 Nos. Complete:	200 Nos.	100	100	10000
11.	Cost of Poly bad, 50 kg.(6-8") size, @ 150/- each.	50	.	150	7500
12.	Light weeding and watering in second year; of 20,000 Nos. seedlings in poly bag:	500 Nos.	40	100	4000
	Cost of Poly bags as per market rate.				
	Cost of cowdung manure; Rs.20/- per doko.std.				
	Contingency: 2%				777
11.	Total 20,000 Nos. in 1000 sq.m.				39615

9. Collection of Castor good quality Seeds; (from within Govt. plantation area/ sericulture farm: ( purchase price @ Rs.40/ kg. good quality seed) 20 kg.

Sl.No	ITEMS OF WORK:	Total Mandy	Rate/ Mandy	Total Cost Rs.
01.	Collection of ripen Castor seeds, from the matured castor plants within Govt. farm land.	2	100	200
02.	Drying and separation of seeds from outer Seed cover; ( part time job for many days).	2	100	200
03.	Husking, drying, quality assessment and packing, etc.	2	100	200
	Contingency: 10% for packing material;			60
	Total cost of 20 kg. good quality Castor Seed;			660

10. Digging of Tapioca and collection of edible roots and twigs from (750 Nos.) in 1500 sq.m.

Sl.No	ITEMS OF WORK:	Total Mandy	Rate/ Mandy	Total Cost Rs.
01.	Digging of tapioca bush individually, 750 Nos. and extraction of root ( only edible part), 1500 kg @ 2kg. minimum from each bush.	3	100	300
02.	Collection of Tapioca roots from 100 m. distance, and separation from outer cover:	15	100	1500
03.	Boiling of tapioca root, for before marketing:	10	100	1000
04.	Collection, of tapioca old twigs, and dumping within 100 distance, for re-plantation. 2000 kg.	4	100	400
05.	Marketing of boiled tapioca root: 1500 kg.	38	100	3800
	Contingency for packing & transportation;			3800
	Total cost;			10800

**Principal CCF-cum-Secretary**  
**Forest Environment and Wildlife Management Department**  
**Government of Sikkim, Gangtok.**